

Service Manual

and Technical Guide

SYSTEM INTER CONNECTING CARD
FOR KX-TD1232

KX-TD192X

(for Asia, Middle Near East and Other areas)

KX-TD192C

(for Canada)

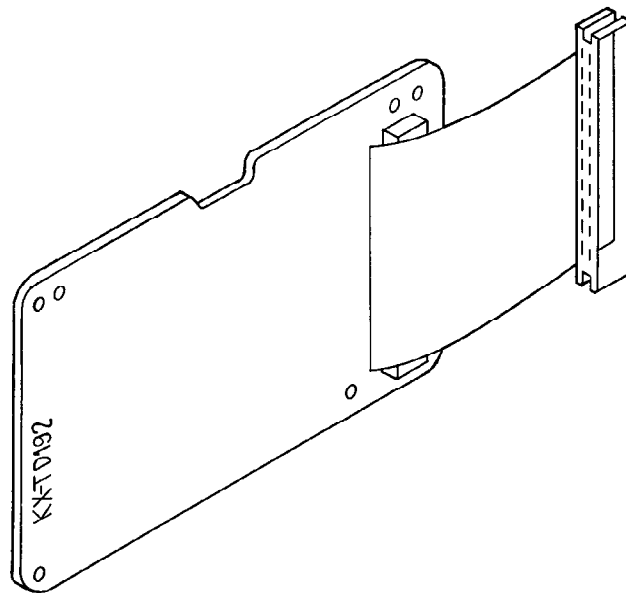
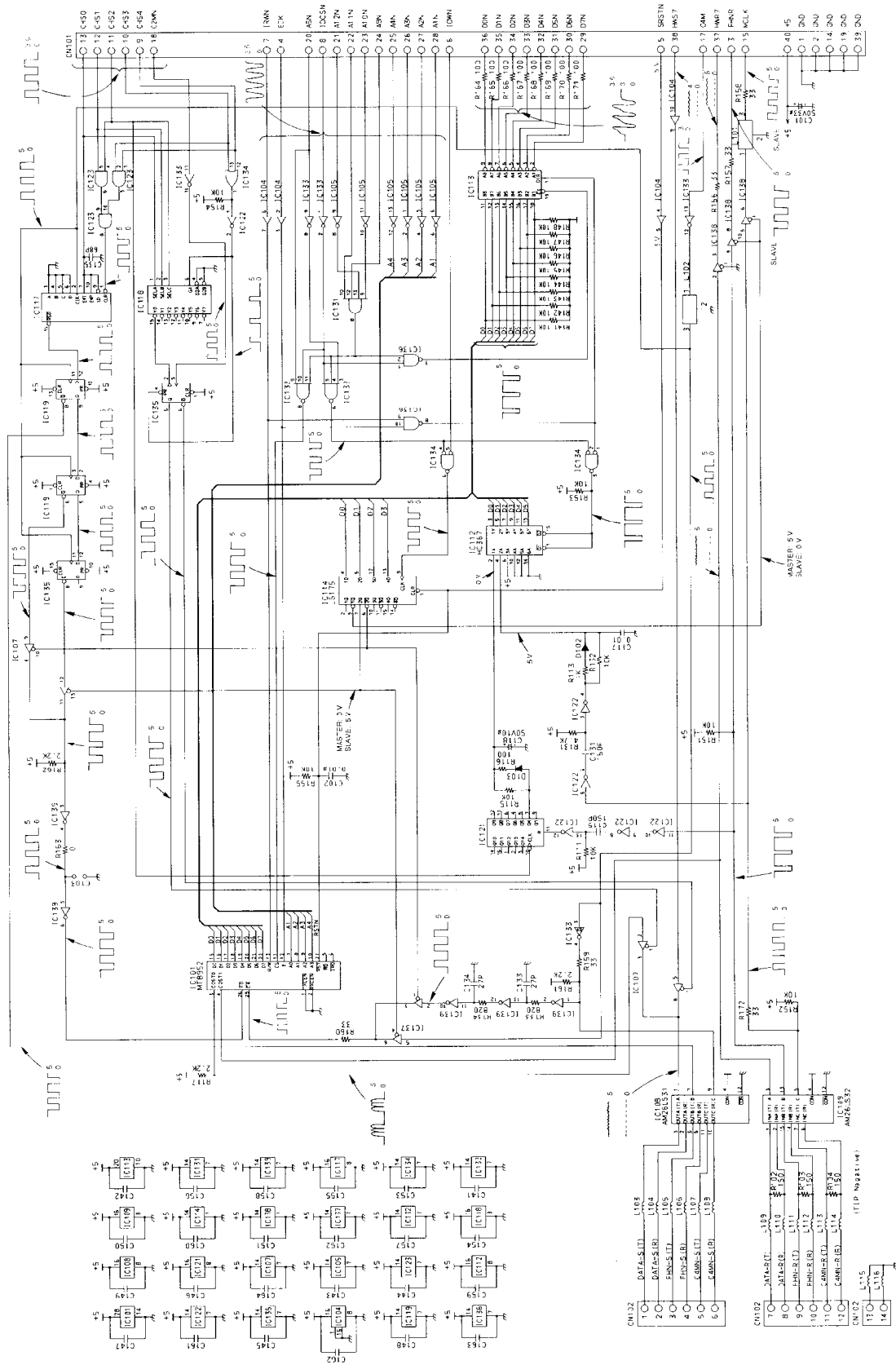


TABLE OF CONTENTS

LOCATION OF THE CARD	2
CIRCUIT OPERATION	2, 3
SCHEMATIC DIAGRAM	4
PRINTED CIRCUIT BOARD	5
HOW TO REPLACE FLAT PACKAGE IC	6
REPLACEMENT PARTS LIST	7, 8
TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES	9

Panasonic

SCHEMATIC DIAGRAM



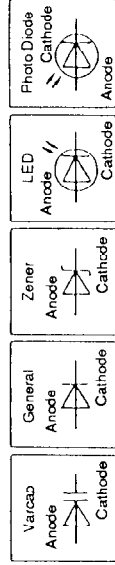
Note:

1. DC voltage measurements are taken with oscilloscope from ground line.

(Waiting condition. Value is V.)

2. The schematic diagram may be modified at any time with the development of new technology.

3.



This replacement parts list is for KX-TD192C/X version only.

Refer to the simplified manual (cover) for other areas.

REPLACEMENT PARTS LIST

Model KX-TD192C/X

Notes:

1. The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

2. The S mark indicates service standard parts and may differ from production parts.

3. RESISTORS & CAPACITORS

Unless otherwise specified.

All resistors are in ohms (Ω) k=1000 Ω , M=1000k Ω

All capacitors are in MICRO FARADS (μ F) P= μ F

*Type & Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	PQRD:Carbon
ERD:Carbon	ERG:Metal Oxide	PQRQ:Fuse
PQ4R:Chip	ERO:Metal Film	ERF:Wire Wound

Wattage

10,16,18:1/8W	14,25,32:1/4W	12,50,51:1/2W	1:1W	2:2W	5:5W
---------------	---------------	---------------	------	------	------

*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,PQCB,PQVP : Ceramic
ECQS:Styrol	ECQM,ECQV,ECQE,ECQU,ECQB : Polyester
PQCBX,ECUV:Chip	ECEA,ECSZ,ECS : Electrolytic
ECMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H:50V	05:50V	OF:3.15V	OJ :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		OJ:6.3V	1E,25:25V	2A :100V

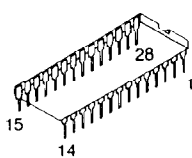
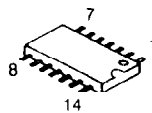
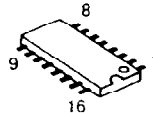
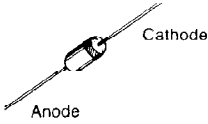
Ref. No.	Part No.	Part Name & Description	Pcs
IC101	PQVIMT8952BE	(ICS) IC	1
IC102	Not Used		
IC103	Not Used		
IC104	PQVISN7L365S	IC	1
IC105	PQVISN7L14S	IC	1
IC106	Not Used		
IC107	PQVISN7L125S	IC S	1
IC108	PQVIMC26L31M	IC	1
IC109	PQVIMC26L32M	IC	1
IC112	PQVISN7H367S	IC S	1
IC113	PQVISN7L640M	IC	1
IC114	PQVISN7L175M	IC	1
IC115	Not Used		
IC116	Not Used		
IC117	PQVISN7L163S	IC	1
IC118	PQVISN7L138M	IC	1
IC119	PQVISN7L74S	IC	1
IC121	PQVISN7H402S	IC	1
IC122	PQVIM7H04F	IC S	1
IC123	PQVISN7L08S	IC S	1
IC131	PQVISN7L21S	IC	1
IC132	PQVISN7L10S	IC	1
IC133	PQVISN7L14S	IC	1
IC134	PQVISN7L32S	IC	1
IC135	PQVISN7L74S	IC	1
IC136	PQVISN7L00S	IC S	1
IC137	PQVISN7L125S	IC S	1
IC138	PQVISN7L125S	IC S	1
IC139	PQVIM7H04F	IC S	1

Ref. No.	Part No.	Value, Part Name & Description	Pcs
D102	MA723	(DIODES) DIODE(SI)	1
D103	MA723	DIODE(SI)	1
X301	PQVCJ4915N8Z	(CRYSTAL OSCILLATORS) CRYSTAL OSCILLATOR	1
X302	PQVCJ3579N9Z	CRYSTAL OSCILLATOR	1
L101	PQVFTU50MT	(CERAMIC FILTERS & COILS) CERAMIC FILTER	1
L102	PQVFTU50MT	CERAMIC FILTER	1
L103	PQLQR1KT	COIL	1
L104	PQLQR1KT	COIL	1
L105	PQLQR1KT	COIL	1
L106	PQLQR1KT	COIL	1
L107	PQLQR1KT	COIL	1
L108	PQLQR1KT	COIL	1
L109	PQLQR1KT	COIL	1
L110	PQLQR1KT	COIL	1
L111	PQLQR1KT	COIL	1
L112	PQLQR1KT	COIL	1
L113	PQLQR1KT	COIL	1
L114	PQLQR1KT	COIL	1
L115	PQLQR1KT	COIL	1
L116	PQLQR1KT	COIL	1
CN	PQJS12R82Y	(CONNECTORS) CONNECTOR CABLE	1
CN101	PQJS40R15Z	CONNECTOR, 40P	1
CN102	PQJP14A37Z	CONNECTOR, 14P	1
C101	ECEA1EU330	(CAPACITORS) 33	1
C102	PQCUV1H1103KB	0.01	1
C103	PQCUV1H390JC	39P	1
C104	Not Used		
C115	PQCUV1H151JC	150P	1
C116	Not Used		
C117	PQCUV1H1103KB	0.01	1
C118	ECEA1HU100	10	1
C131	PQCUV1H151JC	150P	1
C132	Not Used		
C133	PQCUV1H270JC	27P	1
C134	PQCUV1H270JC	27P	1
C135	PQCUV1H680JC	68P	1
C141-164	PQCUV1H223KB	0.022 S	24
R102	PQ4R10XJ151	(RESISTORS) 150	1
R103	PQ4R10XJ151	150	1
R104	PQ4R10XJ151	150	1
R111	PQ4R10XJ103	10K	1
R112	Not Used		
R113	PQ4R10XJ102	1K	1
R114	Not Used		
R115	PQ4R10XJ103	10K	1
R116	PQ4R10XJ101	100	1

This replacement parts list is for KX-TD192C/X version only. Refer to the simplified manual (cover) for other areas.

Ref. No.	Part No.	Value, Part Name & Description	Pcs
R117	PQ4R10XJ222	2.2K	1
R131	PQ4R10XJ472	4.7K	1
R132	PQ4R10XJ103	10K	1
R133	PQ4R10XJ821	820	1
R134	PQ4R10XJ821	820	1
R141	PQ4R10XJ103	10K	1
R142	PQ4R10XJ103	10K	1
R143	PQ4R10XJ103	10K	1
R144	PQ4R10XJ103	10K	1
R145	PQ4R10XJ103	10K	1
R146	PQ4R10XJ103	10K	1
R147	PQ4R10XJ103	10K	1
R148	PQ4R10XJ103	10K	1
R151	PQ4R10XJ103	10K	1
R152	PQ4R10XJ103	10K	1
R153	PQ4R10XJ103	10K	1
R154	PQ4R10XJ103	10K	1
R155	PQ4R10XJ103	10K	1
R156	PQ4R10XJ330	33	1
R157	PQ4R10XJ330	33	1
R158	PQ4R10XJ330	33	1
R159	PQ4R10XJ330	33	1
R160	PQ4R10XJ330	33	1
R161	PQ4R10XJ222	2.2K	1
R162	PQ4R10XJ222	2.2K	1
R163	PQ4R10XJ122	1.2K	1
R164	PQ4R10XJ101	100	1
R165	PQ4R10XJ101	100	1
R166	PQ4R10XJ101	100	1
R167	PQ4R10XJ101	100	1
R168	PQ4R10XJ101	100	1
R169	PQ4R10XJ101	100	1
R170	PQ4R10XJ101	100	1
R171	PQ4R10XJ101	100	1

TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

 <p>PQVIMT8952BE</p>	 <p> PQVISN7L14S PQVISN7L125S PQVISN7L74S PQVIM7H04F PQVISN7208S </p> <p> PQVISN7L00S PQVISN7L21S PQVISN7L10S PQVISN7L32S </p>	 <p> PQVIMC26L32M PQVISN7H367S PQVIMC26L31M PQVISN7L365S PQVISN7L175M </p> <p> PQVISN7H402S PQVISN7L138M PQVISN7L163S </p>
 <p>MA723</p>		